

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

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Application Serial Number: 10/541,998
Source: IFWP
Date Processed by STIC: 8/3/06

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FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

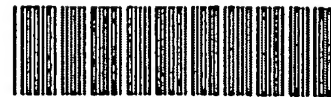
Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)**
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):**
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Revised 01/10/06



IFWP

RAW SEQUENCE LISTING

DATE: 08/03/2006

PATENT APPLICATION: US/10/541,998

TIME: 09:50:26

Input Set : A:\19020.seq.txt

Output Set: N:\CRF4\08032006\J541998.raw

3 <110> APPLICANT: Collier, Greg
 4 Walder, Ken
 5 Segal, David
 6 Foletta, Victoria
 8 <120> TITLE OF INVENTION: OBESITY-RELATED GENES
 10 <130> FILE REFERENCE: 19020
 12 <140> CURRENT APPLICATION NUMBER: 10/541,998
 13 <141> CURRENT FILING DATE: 2005-07-13
 15 <160> NUMBER OF SEQ ID NOS: 13
 17 <170> SOFTWARE: PatentIn version 3.1
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 426
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Psammomys obesus
 24 <220> FEATURE:
 25 <221> NAME/KEY: misc feature
 26 <222> LOCATION: (336)..(366) (336)
 27 <223> OTHER INFORMATION: n = any nucleotide sequence
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 33 aatataatca cgcaggctcc taacctggag aacattgagc tgtactggaa cagctacaac 120
 35 aaccgcccag acctgaactt cgagcgaggt ggtgagatga cctcaagtg cctgtgatg 180
 37 ctggtggtag gagaccaagc gcctcatgag gatgccgtgg tggagtgtaa ctcaaaactg 240
 39 gacccacac agacctcgtt cctcaagatg gctgattctg gaggtcagcc acagctgacc 300
 W--> 41 cagccaggca agctgactga ggctttcaag tacttntctg aaggcatggg ctacatggcc 360
 43 tcctcctgca tgactcgcct atcgaggctc cgcacggcat ctttgaccag cgcagcatcc 420
 45 attgat 426
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 49 <211> LENGTH: 451
 50 <212> TYPE: DNA
 51 <213> ORGANISM: Psammomys obesus
 53 <400> SEQUENCE: 2
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 56 atcgctectg ccgtgggttca cattgaactg tatcgcaaac ttcctttctc gaagagggag 120
 58 gtgccagtgg cgagtgggtc cggatttatc gtgtctgagg atggactgat tgtgaccaat 180
 60 gctcacgtgg tgaccaacaa aaacagggtc aaggttgagc tgaagaatgg agcaacctat 240
 62 gaagctaaaa tcaaggatgt ggtgaaaaag gcagacatcg cacttatcaa aattgaccac 300
 64 cagggaaagc tgccagtctt gctgctgggc cgtcctcag agcttcgacc aggagagttt 360
 66 gtggtcgcca tcggaagccc cttttccctt caaaacacag tcaccactgg gatcgctcagt 420
 68 accacccagc gaggcggcaa agagctgggg c 451
 71 <210> SEQ ID NO: 3
 72 <211> LENGTH: 478
 73 <212> TYPE: DNA

see pp 1-7
 Does Not Comply
 Corrected Diskette Needed

FYI: 'n' can only represent a
 single
 nucleotide.
 If "sequence"
 denotes
 more than
 one nucleotide,
 it is an
 invalid
 designation.
 If you mean
 "n" = any nucleotide,
 that is valid.

(please check all
 sequences showing n's)

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Input Set : A:\19020.seq.txt

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80 tcagtacttg aacaaattca aaacacattg gtttattaac ttttggtcga tgcattggtt      120
82 attaggttca aattatacct gattcatcta tatttacttt taaaatgtgt ggtttcctca      180
84 ttttaaaagt aaaactaaac agtgcttttg gaatttctaa gctactaatt gttgatagat      240
86 acagcctgtg tctagtaaaa tagttttgtg ggtgtgggtt ctatctttcc atgaaaaagt      300
88 gggaggtgta agttagtttg gtttagtcct aatagttaaa tttatataaa ataagaatga      360
90 gcatttggtg tctgtatgaa agggccctaa atcaaaatga ttatccataa tcaatcttta      420
92 ttcttgtttt ataaaaacca aagggcactc attggttaag tgtgctgaga tagaaaag      478
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97 <212> TYPE: DNA
98 <213> ORGANISM: Psammomys obesus
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102 <222> LOCATION: (609)..(609)
103 <223> OTHER INFORMATION: n = any nucleotide sequence
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126 <221> NAME/KEY: misc_feature
127 <222> LOCATION: (1413)..(1413)
128 <223> OTHER INFORMATION: n = any nucleotide sequence
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140 <223> OTHER INFORMATION: n = any nucleotide sequence
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146 tcttcgctct gcgctcgctg cctcctccaa ggccctccagt ctcttttaag aaaactcaag      120
148 acctgggaag ctacgatgcg agcttgatgc cgctacccta gcaggctatg gacttcctga      180
150 gggtcctcgg actgttgaca cccattccga tccgcctcct tccaagctga taagcccggg      240
152 accctagggc ggggtgccca gactcatgtg tgacgccttg cagtgaacc ccattcccag      300
154 tgtggttgct tctttgctgg gctttggccc atttgatacc acgaaggatg acgatgctag      360

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Input Set : A:\19020.seq.txt

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156 ttatgcagca gccaacacac ctccccccaa ctctccgctg tcaactgggtgg gccccactgt 420
 158 ccaggaagca ggtgtccgga actgacatct tggagcagag gggccatgag aggtgtgtgt 480
 160 atcctgccag aaagcagctg gaccacgacg ctcccaagat gaacccactg tatacagagg 540
 162 catcatggga gttgttatgt caggagcatt ctagaccacac gtgtacttga gcgtggaaag 600
 W--> 164 acagaagana ngcgcagaga ctggggcact tgatctgtct accatgatcg cctgcacggg 660
 166 tctcatccag ttcctgcctt aggetacagt ggcggtgtcc acgggcttgc cattcaacgt 720
 168 gctctcagac ccagatcggg ctcaccactg aggagaacct tttcactttg gtgggtatgc 780
 170 agaggggaagg gtctcgactc cagagacctg gagtccaaag tttgtttttt tttatttacc 840
 172 agtaatttat ttattttttt tattattagt tatgagtcca aagtttaata ccattcaagc 900
 174 tactgtctgc tgtctgctta gagccacagc atgcaatgtg gcaccaaggc atccttgtcc 960
 176 tcacagtttc aactgtggg aacaggcatc cttgtttctta cagattagcg cgagggaaac 1020
 178 cagaaatatt aaacacgcag ggtgtgtctc ccaaaggag aggcacatac cctgttttcc 1080
 180 tcccgaaggc tgggagcgga ggtgtttgat atcctggcta cctctgtgca atctgtaggc 1140
 182 catgtcctta agatgtagct gtcagtcggt agtggagccg gagccgtcag tcagtagatt 1200
 184 ggggttgtgg catgcgctt taactccatt taattccagc actctagtgg tttggtacag 1260
 186 cagcagcagc agcggttgca gtggcccggy gaagtcctga agaccagctt tcatcccagc 1320
 188 actcaggcag caaaggcggy tggattctct gagttcgagg ccggcctggt ctacagagt 1380
 190 agtccagnen agccagggt acaacagaga aancctctct attgaaaaat aaataaatta 1440
 192 taaaaaaaaa aagtggtcat gtgtcctgtg tactttacaa agaattgtga tgcttaagct 1500
 194 tttttgtgca cncaagaaaa ttgtttaact ggtgtcagac tctgaagtt tgaaccagca 1560
 196 cttagccngg cgtggtggcg cagcctgtta atcccagccc tcgggaggca gaggcagggt 1620
 198 gatctctgag ttagaggcca gcctggtcta cagagtgagt ccaggacagc caggattaca 1680
 200 cagagaaacc ccgtctcaaa aatgtaaaat aaattaaaat aaagtttgaa ccaacagtgt 1740
 202 ttactgagtc gtgttgaaac agattacctt tttgcttctc tttgatcatt attctactgt 1800
 204 ggtgtcagca gagaccctc cagcaggtgg ccaacgtgag agtctcaagc ccgagaagg 1860
 206 aagaatttaa aaaaaaaaaa aaaa 1884
 209 <210> SEQ ID NO: 5
 210 <211> LENGTH: 1358
 211 <212> TYPE: DNA
 212 <213> ORGANISM: Psammomys obesus
 214 <220> FEATURE:
 215 <221> NAME/KEY: misc_feature
 216 <222> LOCATION: (385)..(385)
 217 <223> OTHER INFORMATION: n = any nucleotide sequence
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 222 <222> LOCATION: (416)..(416)
 223 <223> OTHER INFORMATION: n = any nucleotide sequence
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 229 <222> LOCATION: (430)..(430)
 230 <223> OTHER INFORMATION: n = any nucleotide sequence
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 234 <221> NAME/KEY: misc_feature
 235 <222> LOCATION: (507)..(507)
 236 <223> OTHER INFORMATION: n = any nucleotide sequence
 239 <220> FEATURE:
 240 <221> NAME/KEY: misc_feature
 241 <222> LOCATION: (754)..(754)

RAW SEQUENCE LISTING

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Input Set : A:\19020.seq.txt.

Output Set: N:\CRF4\08032006\J541998.raw

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245 <220> FEATURE:
246 <221> NAME/KEY: misc_feature
247 <222> LOCATION: (856)..(856)
248 <223> OTHER INFORMATION: n = any nucleotide sequence
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252 <221> NAME/KEY: misc_feature
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254 <223> OTHER INFORMATION: n = any nucleotide sequence
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259 <222> LOCATION: (980)..(980)
260 <223> OTHER INFORMATION: n = any nucleotide sequence
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265 <221> NAME/KEY: misc_feature
266 <222> LOCATION: (1165)..(1165)
267 <223> OTHER INFORMATION: n = any nucleotide sequence
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304 <223> OTHER INFORMATION: n = any nucleotide sequence
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308 <221> NAME/KEY: misc_feature
309 <222> LOCATION: (1330)..(1330)
310 <223> OTHER INFORMATION: n = any nucleotide sequence
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316 tttctgttga gatgttgat gaaaacaagt atccactgtt taccaacttg acgaaaaatc      120
318 tcaactgagg tttggctgtt aaaaaaaaaa attcactgtg gcctctgtgc ttaattgtcg      180

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Input Set : A:\19020.seq.txt
Output Set: N:\CRF4\08032006\J541998.raw

W--> 320 taaaccattg tgactgttac tgctcaaagt atcgtactgt tcattagtaa ctacatcaga 240
322 attgcaccgc tgctgttggg aaagccaata aagaaacccc cagactgctg ctcagcaaat 300
324 gttaataaag tggcgccacc gtaggcctgt ccacccagtc accaagcagc gtccctttgt 360
326 ctgagagtgg ctgtgggtgt gattnaccac ctcagaggtg cacagcacct gcttnggcc 420
328 ttaagtgtgn gtcagaagac aagcagcttc tcggtaacca acaacctgct tttcggagct 480
330 cagtgttttag gctgtttact gaatanata tgtaactcag cacacataag cgaagagaga 540
332 ttttggctgc actggcaaga gtgaaccaa tttacttcta ttttttaaag gcagatcata 600
334 ttttaagcata taagtaattt atggatataa attgttggat atttatttta gtctgaatat 660
336 ttgtttttaa attattacat gtgttctcta tgtctttatc tctggaataa cgatgccatt 720
338 aaccacatgg ccatatgttt tgaaagtgtg gtgnaacaga ggaaaagtca tccttcttgg 780
340 ttcttgactc ctttctctca actacatgat aagtctatca ataaagcatt tgacctcagc 840
342 aggggcagaa gcctgnaaag ttagaaaact cattgaccac agtagacaat tgatttctta 900
344 gaaataagaa gtgagaagca gctgctgngc tgagcagggg atgtaaacca agtccagatg 960
346 caccaacgtg aagaggcttn tagcaaaaat atgtttgcct ctcacccctg cacatgttct 1020
348 agatgcttaa aaacagccac atggccccgc tgcgaggacc tcgtaatgtt gttgttgtg 1080
350 ttgtttgtgt taaaggagtt ctcacaagcg tacaagtga gactgaaaag tggctgaggc 1140
352 ccacagtcct cagcacccaa gtctnttccg cagcacgcca agctggtgtt gtccgggtgn 1200
354 gtatgtctgt gctcagtgcc aagctggtgt ttgggtcccg tgtatattat gtgccccaa 1260
356 tgttttgggg canagctgac ccangctgga cacacttctt ttngncttcg agtttactgg 1320
358 ttgatncagn taaaataaaa ttaattaatt aaagactt 1358
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362 <211> LENGTH: 390
363 <212> TYPE: DNA
364 <213> ORGANISM: Psammomys obesus
366 <220> FEATURE:
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368 <222> LOCATION: (3)..(3)
369 <223> OTHER INFORMATION: n = any nucleotide sequence
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373 <221> NAME/KEY: misc_feature
374 <222> LOCATION: (9)..(9)
375 <223> OTHER INFORMATION: n = any nucleotide sequence
378 <220> FEATURE:
379 <221> NAME/KEY: misc_feature ? 'C' is at 60 (see p.6)
380 <222> LOCATION: (60)..(60)
381 <223> OTHER INFORMATION: n = any nucleotide sequence
384 <220> FEATURE:
385 <221> NAME/KEY: misc_feature 'a' is at 71
386 <222> LOCATION: (71)..(71)
387 <223> OTHER INFORMATION: n = any nucleotide sequence
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391 <221> NAME/KEY: misc_feature
392 <222> LOCATION: (91)..(91) 'a' is at 91
393 <223> OTHER INFORMATION: n = any nucleotide sequence
396 <220> FEATURE:
397 <221> NAME/KEY: misc_feature 'g' is at 113
398 <222> LOCATION: (113)..(113)
399 <223> OTHER INFORMATION: n = any nucleotide sequence
402 <220> FEATURE:

see p.6

10/541,998

6

<220>
 <221> misc_feature 'C' is at 388
 <222> (388)..(388)
 <223> n = any nucleotide sequence

<220>
 <221> misc_feature
 <222> (524)..(524)
 <223> n = any nucleotide sequence

<220>
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 <222> (527)..(527)
 <223> n = any nucleotide sequence

there are only 390
 nucleotides in the
 sequence

<400> 6
 gtngaagcnt aggagttcga ggatgcgccc gatgtcgagc cgctggaacc cacgcttagc 60
 aatatcatcg agcagcgcag ccttaagtgg atcttcgctg ggggcaaggg tgcgcttggt 120
 aagaccacct gcagctgcag cctggcggtc cagctgtcta agggacgtga gagtgttcta 180
 atcatttcca cagaccagc tcacaacatc tcagatgcat ttgaccagaa gttctccaag 240
 gtgcctacca aggtcaaagg ctatgacaac ctctttgcta tggagataga cccgagcctg 300
 ggcgtggcag agctccctga tgaagttctt cgaggaagac aacatgctga gcatgggcaa 360
 gaagatgatg caggaggcca tgagcgccct 390

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Input Set : A:\19020.seq.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 336
Seq#:4; N Pos. 609,611,1388,1390,1413,1512,1568
Seq#:5; N Pos. 385,418,430,507,754,856,928,980,1165,1200,1273,1284,1303
Seq#:5; N Pos. 1305,1326,1330
Seq#:6; N Pos. 3,9
Seq#:7; N Pos. 524,527
Seq#:8; N Pos. 60
Seq#:9; N Pos. 71,91,113,388

VERIFICATION SUMMARY

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Input Set : A:\19020.seq.txt

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L:41 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:300
L:164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:600
M:341 Repeated in SeqNo=4
L:326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:360
M:341 Repeated in SeqNo=5
L:422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:471 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:480
L:501 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:548 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:60
M:341 Repeated in SeqNo=9